## APPARATUS FOR THE IN-PROCESS DIMENSIONAL CHECKING OF CYLINDRICAL PARTS

## ABSTRACT OF THE DISCLOSURE

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An apparatus for checking the diameter of crankpins of a crankshaft in the course of the machining in a grinding machine includes a Vee-shaped reference device, a measuring device associated with the reference device and including a feeler axially movable along the bisecting line of the Vee-shaped reference device, and a support device with a first arm rotating with respect to a support arranged on the grinding-wheel slide and a second arm rotating with respect to the first and carrying the Vee-shaped reference device.

A guiding mechanism includes a limiting device, with mutually abutting surfaces and coupled to the support device, that guides the displacement of the reference device along a trajectory substantially parallel to the profile of the grinding wheel, allows the engagement of the reference device on a crankpin to be checked while the latter is orbitally moving, and does not interfere with the displacements of the support device caused by the orbital motion of the crankpin in the checking condition.

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